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8 ASETEK DANMARK A/S

9  
10 UNITED STATES DISTRICT COURT  
11 NORTHERN DISTRICT OF CALIFORNIA  
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13

14 ASETEK DANMARK A/S

15 Plaintiff,

16 v.

17 COOLIT SYSTEMS, INC.

18 Defendant.  
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CASE NO.

**COMPLAINT FOR PATENT  
INFRINGEMENT**

**DEMAND FOR JURY TRIAL**

COMES NOW Plaintiff Asetek Danmark A/S (“Asetek”), by and through their attorneys, and for their Complaint against Defendant CoolIT Systems, Inc. (“CoolIT”), allege as follows:

**NATURE OF ACTION**

1. This Complaint seeks judgment that CoolIT has infringed and continues to infringe Asetek’s U.S. Patent Nos. 8,240,362 (“the ’362 patent”); 8,245,764 (“the ’764 patent”); 9,733,681 (“the ’681 patent”); 10,078,354 (“the ’354 patent”); and 10,078,355 (“the ’355 patent”) (collectively, “the Patents-in-Suit”). Each of these patents relates to liquid cooling systems and methods for cooling heat-generating electronic components.

**THE PARTIES**

2. Asetek is a corporation organized and existing under the laws of Denmark, and has a location at Assensvej 2, DK-9220 Aalborg East, Denmark. Asetek is the owner of the Patents-in-Suit.

3. Upon information and belief, CoolIT is a corporation operating and existing under the laws of Canada and its principal place of business is at 10 – 2928 Sunridge Way NE, Calgary, Alberta, Canada T1Y 7H9.

**JURISDICTION AND VENUE**

4. This is an action for patent infringement arising under the United States Patent Laws, 35 U.S.C. § 100 *et seq.* Subject matter jurisdiction is proper under 28 U.S.C. §§ 1331 and 1338(a).

5. This Court has personal jurisdiction over CoolIT because CoolIT infringes the Patents-in-Suit in the United States, in California, and in this judicial district. CoolIT maintains a Website, [www.coolitsystems.com](http://www.coolitsystems.com), via which it advertises and promotes its infringing products to customers, including customers in the United States, in California, and in this judicial district. Among other things, upon information and belief, CoolIT offers to sell and sells its infringing products to Corsair Components, Inc. and/or Corsair Memory, Inc. (collectively “Corsair”) in this judicial district for importation, promotion, sales, and distribution to end-users throughout the United States, including in California and in this judicial district. Corsair’s principal place of business is in Fremont, California, in this judicial district. CoolIT’s website directs customers to Corsair’s website for retail sales. Upon information and belief, CoolIT has entered into one or more contracts with Corsair for a retail collaboration and the promotion, importation, offers for sale, sale, and

1 distribution of CoolIT products, including products that infringe the Patents-in-Suit, to end-users in  
 2 the United States (including California and this judicial district). Upon information and belief,  
 3 CoolIT derives substantial revenue from its sales of infringing products to Corsair in California and  
 4 this judicial district, and CoolIT purposefully avails itself of the privilege of conducting activities in  
 5 California, thus invoking the benefits and protections of the laws of California.

6 6. On information and belief, the CoolIT products accused of infringement in this  
 7 Complaint are used in computers (and thus infringe the Patents-in-Suit) in California and in this  
 8 judicial district.

9 7. Venue is proper in this judicial district.

### 10 **FACTUAL BACKGROUND**

11 8. Asetek is the world leading provider of liquid cooling systems for heat-generating  
 12 electronic components, such as CPUs and GPUs. Asetek's business is dedicated entirely to liquid-  
 13 cooling, which makes up 100% of its revenue. Asetek's solutions are used by leading original  
 14 equipment manufacturers ("OEM") servicing the datacenter, server, gaming, workstation, and high  
 15 performance PC markets. Asetek is also the leading provider of liquid cooling products for the  
 16 enthusiast/do-it-yourself market, which includes end-users who buy and self-install liquid cooling  
 17 systems into their computers.

18 9. Asetek's patented combination of a pump, a dual chambered reservoir, and a cold plate  
 19 into a single pump unit—which is claimed in the Patents-in-Suit—provides the benefits of improved  
 20 pumping and heat removal efficiencies in a compact (narrow profile) design that enables the pump  
 21 unit to be installed directly on the CPU/GPU of a computer motherboard, graphics card, or a server.  
 22 In addition to improved efficiency and compactness, Asetek's patented designs have greatly reduced  
 23 and/or eliminated the risk of coolant leakage and have enabled pre-filled (factory assembled and  
 24 sealed) liquid cooling products that are easy to install and use. Asetek's patented designs have also  
 25 made manufacturing of liquid cooling products simpler and less costly.

26 10. CoolIT identifies itself as a provider of Direct Contact Liquid Cooling (DCLC) solutions  
 27 to datacenters, Hyperscalers, desktop OEMs, and enthusiasts. Upon information and belief, CoolIT  
 28 offers to sell, sells, distributes, and imports in and into the United States at least various

versions/generations of the H60, H100i Extreme Performance, H100i RGB Platinum, H100i RGB Platinum SE, H110i Extreme Performance, and H115i RGB Platinum liquid coolers (and variants thereof) that infringe the Patents-in-Suit. Upon information and belief, CoolIT offers to sell and sells at least the H60, H100i Extreme Performance, H100i RGB Platinum, H100i RGB Platinum SE, H110i Extreme Performance, and H115i RGB Platinum (and variants thereof) to Corsair in the United States, in California, and in this judicial district as part of Corsair's HydroSeries™ product line. Upon information and belief, CoolIT offers to sell and sells one or more of the H60, H100i Extreme Performance, H100i RGB Platinum, H100i RGB Platinum SE, H110i Extreme Performance, and H115i RGB Platinum product configurations to other resellers/retailers or additional customers in the United States under different names or different exterior (cosmetic) finishing, but having the same fundamental pump unit structure and function, that also infringe the Patents-in-Suit.

11. Upon information and belief, CoolIT also offers to sell and sells in the United States additional liquid cooling products that have CoolIT's E3 pump technology with split-flow cold plates and/or EP2 active cold plates, each of which infringes the Patents-in-Suit. Such infringing products include but are not limited to the Ninja Developer Platform for Intel® Xeon Phi™ Processor (formerly Knights Landing or KNL) and other liquid cooling products designed for and compatible with Intel and AMD processors, including Intel® Xeon® Scalable CPUs. Upon information and belief, CoolIT sells or offers to sell such infringing products in the United States to desktop and server OEMs and ODMs (Original Design Manufacturer), or directly to end-users with or without intermediate retailers/resellers. Upon information and belief, CoolIT also offers to sell and sells liquid cooling products that have CoolIT's E3 pump technology with split-flow cold plates, or variants thereof, to Corsair in the United States, in California, and in this judicial district, and Corsair has sold or offered to sell such liquid cooling products in the United States, in California, and in this judicial district as part of Corsair's gaming PCs branded as Corsair One or Corsair One Pro.

12. Upon information and belief, CoolIT also offers to sell and sells in the United States RackDCLC and server-level cooling loops having active cold plates to datacenter/server

1 OEMs/ODMs and Hyperscalers. Upon information and belief, the active cold plates of the  
2 RackDCLC and server-level cooling loops incorporate CoolIT's E3 pump technology with split-flow  
3 cold plates and/or have the same fundamental pump unit structure and function as the H60, H100i  
4 Extreme Performance, H100i RGB Platinum, H100i RGB Platinum SE, H110i Extreme  
5 Performance, and H115i RGB Platinum liquid coolers, each of which infringes the Patents-in-Suit.  
6 Upon information and belief, CoolIT sold or offered to sell its RackDCLC with active cold plates to  
7 Ciara Technologies, which has sold or offered to sell the RackDCLC with active cold plates to  
8 Akamai Technologies and/or other end-users in the United States.

9       13. All of the CoolIT products described in ¶¶ 10-12 above are collectively referred to as  
10 "Accused Products" hereinafter. Upon information and belief, each of the Accused Products has the  
11 same fundamental pump unit structure and configuration; any differences between the products are  
12 irrelevant to the claims of the Patents-in-Suit and to CoolIT's infringement of the same.  
13 Accordingly, Counts I-V below refer to CoolIT's H100i RGB Platinum as a representative product  
14 for all of the Accused Products. Upon information and belief, Asetek's infringement allegations for  
15 the H100i RGB Platinum are also applicable to all of the Accused Products.

16       14. The '764 and '362 patents were the subject of a prior patent infringement lawsuit  
17 between Asetek and CoolIT (Case No. 12-cv-04498-EMC), which was filed in 2012 and settled in  
18 June 2015. Therefore, CoolIT has actual knowledge of the '362 and the '764 patents. In addition,  
19 and on information and belief, CoolIT has long monitored Asetek's patent filings and issued patents.  
20 The other Patents-in-Suit—the '681, the '354, and the '355 patents—are continuations of the '362  
21 and the '764 patents. Therefore, upon information and belief, CoolIT has known of the '681, the  
22 '354, and the '355 patents since shortly after each issued.

23       15. In addition, Asetek sent a cease-and-desist letter to CoolIT in July 2016 notifying CoolIT  
24 that its liquid cooling products based on its allegedly redesigned pump unit still infringed Asetek's  
25 '362 and '764 patents. The July 2016 letter also informed CoolIT that Asetek is entitled to damages  
26 for sales of CoolIT's infringing products starting February 6, 2015 because the damages  
27 determination for the settlement of the prior litigation only covered CoolIT's infringing sales up to  
28 February 5, 2015. Despite its knowledge of the Patents-in-Suit and the cease-and-desist letter,

CoolIT has continued to offer for sale and sell the Accused Products to customers in the United States without the consent or authority of Asetek.

## **COUNT I**

### **Infringement of U.S. Patent No. 8,240,362**

16. Asetek owns the entire right, title, and interest in and to the '362 patent. A true and correct copy of the '362 patent is attached hereto as Exhibit A.

17. Upon information and belief, CoolIT has directly infringed one or more claims of the '362 patent under 35 U.S.C. § 271(a) by, among other things, offering for sale, selling, importing and/or distributing the Accused Products in and into the United States.

18. The Accused Products infringe at least claim 14 of the '362 patent, either literally and/or under the doctrine of equivalents.

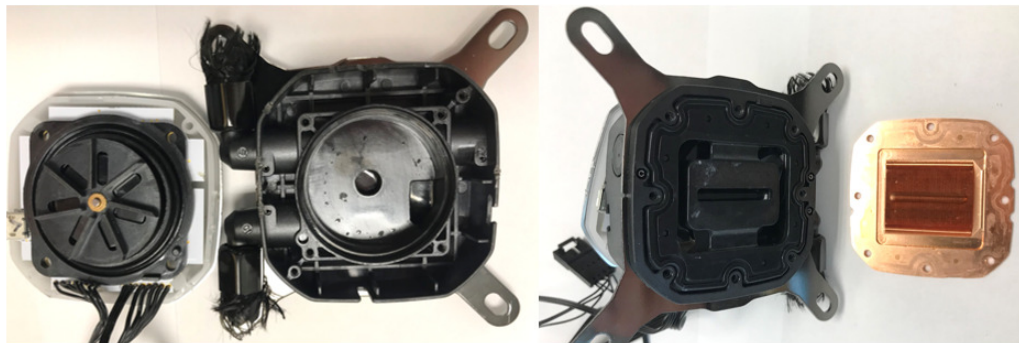
19. Upon information and belief, the Accused Products are cooling systems for processing units positioned on a motherboard of a computer and comprise the claimed elements of at least claim 14 of the '362 patent.



20. Upon information and belief, the Accused Products include “a reservoir configured to be coupled to the processing unit positioned on the motherboard at a first location, the reservoir being adapted to pass a cooling liquid therethrough.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a reservoir configured to be coupled to a processing unit positioned on the motherboard at a first position and the reservoir is adapted to pass cooling liquid therethrough.



21. Upon information and belief, the reservoir of the Accused Products includes “an upper chamber and a lower chamber, the upper chamber and lower chamber being separate chambers containing cooling liquid that are separated by at least a horizontal wall and fluidly coupled together by one or more passageways, at least one of the one or more passageways being a substantially circular passageway positioned on the horizontal wall.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products includes an upper chamber and a lower chamber separated by at least a horizontal wall and fluidly coupled together by one or more passageways. Further, at least one of the passageways on the horizontal wall is substantially circular and positioned on the horizontal wall.



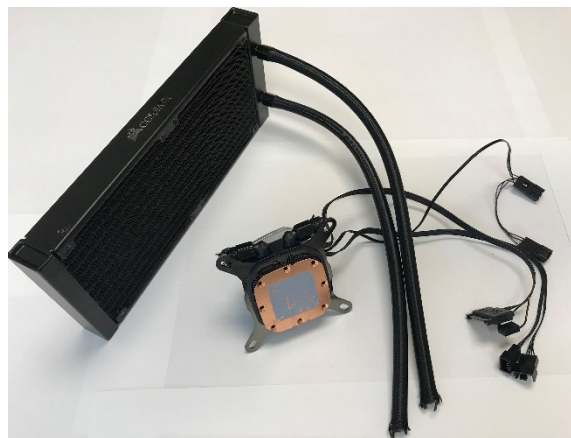
22. Upon information and belief, the reservoir of the Accused Products includes “a heat exchanging interface configured to be placed in separable thermal contact with the processing unit, the heat exchanging interface being removably attached to the reservoir such that the heat exchanging interface forms a boundary wall of the lower chamber and the reservoir.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the



Accused Products includes a heat exchanging interface configured to be placed in separable thermal contact with the processing unit and is removably attached (e.g., using screws, fasteners, or brackets) to the reservoir such that the heat exchanging interface forms a boundary wall of the lower chamber of the reservoir.



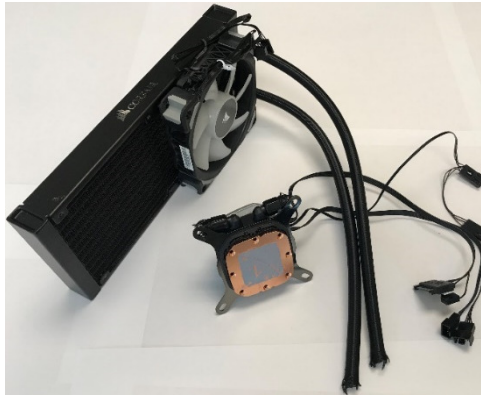
23. Upon information and belief, the Accused Products include “a heat radiator configured to be positioned at a second location horizontally spaced apart from the first location when the reservoir is coupled to the processing unit.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a heat radiator configured to be positioned at a second location horizontally spaced apart from the first location when the reservoir is coupled to the processing unit.



24. Upon information and belief, the Accused Products further include “a fan adapted to direct air to the heat radiator to dissipate heat from the cooling liquid to the surrounding atmosphere.” For example, as the image of the representative H100i RGB Platinum product below



1 shows, the Accused Products include a fan that is adapted to direct air to the heat radiator to  
2 dissipate heat from the cooling liquid to the surrounding atmosphere.



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10 25. Upon information and belief, the Accused Products further include “a pump configured  
11 to circulate cooling liquid between the reservoir and the heat radiator, the pump including a motor  
12 having a rotor, a stator, and an impeller having the equivalent (under the doctrine of equivalents) of  
13 curved blades, the impeller being mechanically coupled to the rotor and at least partially submerged  
14 in the cooling liquid of the reservoir, wherein a speed of the impeller is configured to be varied  
15 independent of the speed of the fan.” For example, as the images of the representative H100i RGB  
16 Platinum product below show, the Accused Products include a pump configured to circulate cooling  
17 liquid between the reservoir and the heat radiator, the pump having a stator and a rotor. The pump  
18 also includes an impeller with blades that circulate the cooling liquid and perform substantially the  
19 same function, in substantially the same way, to achieve substantially the same results as the claimed  
20 curved impeller blades, and thus is equivalent to the claimed impeller of claim 14 under the doctrine  
21 of equivalents. The impeller is mechanically coupled to the rotor and at least partially submerged in  
22 the cooling liquid in the reservoir. Because separate motors drive the fan and the pump, a speed of  
23 the impeller is configured to be varied independent of the speed of the fan.



26. Upon information and belief, CoolIT has induced and continues to actively induce direct infringement of at least claim 14 of the '362 patent by others (such as its distributors, retailers, resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(b). CoolIT knew of the '362 patent, and upon information and belief, CoolIT has taken affirmative steps that have encouraged, aided and abetted (and continues to encourage, aid and abet) direct infringement by its distributors, retailers, resellers, customers, and end-users in the United States, and CoolIT has known that its induced acts constitute infringement of the '362 patent or has been willfully blind to the infringement. These acts include, but are not limited to, CoolIT's manufacture and supply of the Accused Products, promotion on its website, providing user manuals/guides instructing its customers/end users how to install and use the Accused Products, and on information and belief, its contracts and agreements with dealers, resellers, retailers, and distributors (including Corsair) for the promotions, offers to sell, and sales of the Accused Products in the United States.

27. Upon information and belief, CoolIT has contributed to and continues to contribute to the direct infringement of at least claim 14 of the '362 patent by others (such as its distributors, retailers, resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(c). Upon information and belief, CoolIT supplies important (material) components of the Accused Products (as well as instructions for the same) to its distributors, retailers, resellers, customers, and end-users in the United States, including Corsair. Upon information and belief, CoolIT knew or was willfully blind that the combination for which its components were especially made was both patented and

1 infringing, that the Accused Products are not a staple article or commodity of commerce, and has no  
2 substantial non-infringing uses.

3 28. Upon information and belief, CoolIT has infringed the '362 patent in an egregious and  
4 willful manner and with knowledge of the '362 patent, or was willfully blind to the risk of  
5 infringement.

6 29. CoolIT's infringement of the '362 patent has caused and continues to cause damages and  
7 irreparable harm to Asetek.

## 8 **COUNT II**

### 9 **Infringement of U.S. Patent No. 8,245,764**

10 30. Asetek owns the entire right, title, and interest in and to the '764 patent. A true and  
11 correct copy of the '764 patent is attached hereto as Exhibit B.

12 31. Upon information and belief, CoolIT has directly infringed one or more claims of the  
13 '764 patent under 35 U.S.C. § 271(a) by, among other things, offering for sale, selling, importing  
14 and/or distributing the Accused Products in and into the United States.

15 32. The Accused Products infringe at least claim 1 of the '764 patent, either literally and/or  
16 under the doctrine of equivalents.

17 33. Upon information and belief, the Accused Products are cooling systems for heat-  
18 generating components comprising the claimed elements of at least claim 1 of the '764 patent.



26 34. Upon information and belief, the Accused Products include “a double-sided chassis to  
27 mount a pump configured to circulate a cooling liquid, the pump comprising a stator and an impeller,  
28 the impeller being positioned on the underside of the chassis and the stator being positioned on the

1 upper side of the chassis and isolated from the cooling liquid.” For example, as the images of the  
 2 representative H100i RGB Platinum product below show, the Accused Products include a double-  
 3 sided chassis mounted with a pump that has a stator and an impeller, with the impeller positioned on  
 4 the underside of the chassis and the stator positioned on the upper side of the chassis and isolated  
 5 from the cooling liquid.

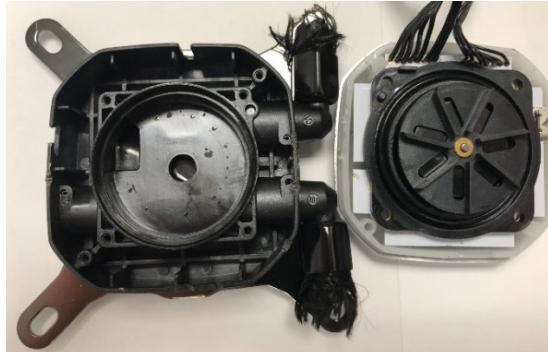


15 35. Upon information and belief, the Accused Products further include “a reservoir adapted  
 16 to pass the cooling liquid therethrough.” For example, as the image of the representative H100i RGB  
 17 Platinum product below shows, the Accused Products include a reservoir adapted to pass cooling  
 18 liquid through it.

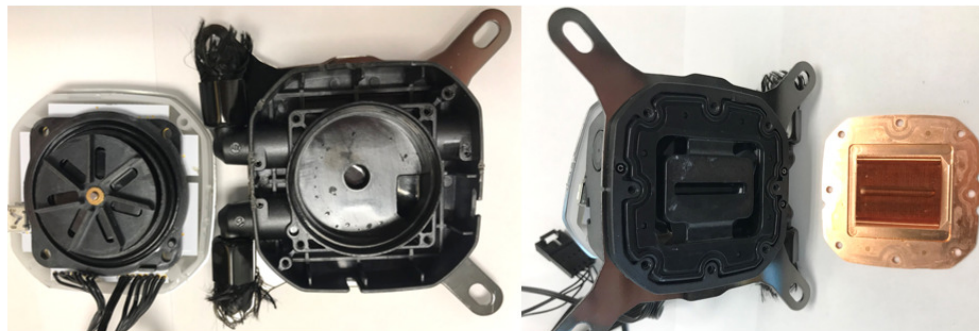


26 36. Upon information and belief, the reservoir of the Accused Products includes “a pump  
 27 chamber including the impeller and formed below the chassis, the pump chamber being defined by at  
 28 least an impeller cover having one or more passages for the cooling liquid to pass through.” For

example, as the images of the representative H100i RGB Platinum product below shows, the reservoir of the Accused Products include a pump chamber formed below the chassis and housing the pump impeller, the pump chamber comprising at least an impeller cover with one or more passages.



37. Upon information and belief, the Accused Products include a reservoir that further includes “a thermal exchange chamber formed below the pump chamber and vertically spaced apart from the pump chamber, the pump chamber and the thermal exchange chamber being separate chambers that are fluidly coupled together by one or more passages.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products includes a thermal exchange chamber that is vertically spaced apart from the pump chamber, with the thermal exchange chamber formed below the pump chamber. Both the pump chamber and thermal exchange chamber are separate chambers that are fluidly coupled together by one or more passages.



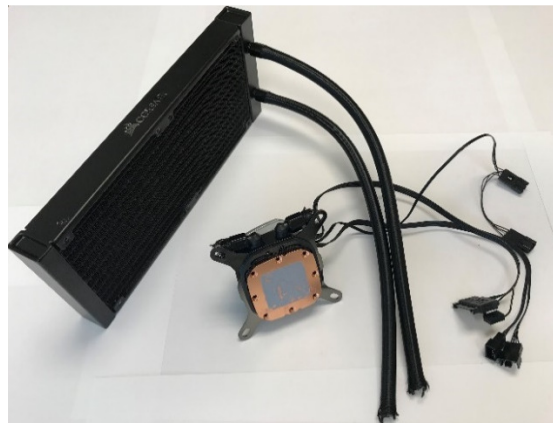
38. Upon information and belief, the thermal exchange chamber of the reservoir of the Accused Products further includes “a heat-exchanging interface, the heat exchanging interface



forming a boundary wall of the thermal exchange chamber, and configured to be placed in thermal contact with a surface of the heat-generating component.” For example, as the images of the representative H100i RGB Platinum product below show, the Accused Products include a heat-exchanging interface that forms a boundary wall of the thermal exchange chamber and is configured with one side to be placed in thermal contact with a surface of the heat-generating component.



39. Upon information and belief, the Accused Products include a “heat radiator fluidly coupled to the reservoir and configured to dissipate heat from the cooling liquid.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a heat radiator fluidly coupled to the reservoir and configured to dissipate heat from the cooling liquid.



40. Upon information and belief, CoolIT has induced and continues to actively induce direct infringement of at least claim 1 of the '764 patent by others (such as its distributors, retailers, resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(b). CoolIT knew of the '764 patent, and upon information and belief, CoolIT has taken affirmative steps that have



1 encouraged, aided and abetted (and continues to encourage, aid and abet) direct infringement by its  
 2 distributors (including Corsair), retailers, resellers, customers, and end-users in the United States,  
 3 and CoolIT has known that its induced acts constitute infringement of the '764 patent or has been  
 4 willfully blind to the infringement. These acts include, but are not limited to, CoolIT's manufacture  
 5 and supply of the Accused Products, promotion on its website, providing user manuals/guides  
 6 instructing its customers/end users how to install and use the Accused Products, and on information  
 7 and belief, its contracts and agreements with dealers, resellers, retailers, and distributors for the  
 8 promotions, offers to sell, and sales of the Accused Products in the United States.

9 41. Upon information and belief, CoolIT has contributed to and continues to contribute to the  
 10 direct infringement of at least claim 1 of the '764 patent by others (such as its distributors, retailers,  
 11 resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(c). Upon information  
 12 and belief, CoolIT supplies important (material) components of the Accused Products (as well as  
 13 instructions for the same) to its distributors, retailers, resellers, customers, and end-users in the  
 14 United States, including Corsair. Upon information and belief, CoolIT knew or was willfully blind  
 15 that the combination for which its components were especially made was both patented and  
 16 infringing, that the Accused Products are not a staple article or commodity of commerce, and has no  
 17 substantial non-infringing uses.

18 42. Upon information and belief, CoolIT has infringed the '764 patent in an egregious and  
 19 willful manner and with knowledge of the '764 patent, or was willfully blind to the risk of  
 20 infringement.

21 43. CoolIT's infringement of the '764 patent has caused and continues to cause damages and  
 22 irreparable harm to Asetek.

### 23 **COUNT III**

#### 24 **Infringement of U.S. Patent No. 9,733,681**

25 44. Asetek owns the entire right, title, and interest in and to the '681 patent. A true and  
 26 correct copy of the '681 patent is attached hereto as Exhibit C.

45. Upon information and belief, CoolIT has directly infringed one or more claims of the '681 patent under 35 U.S.C. § 271(a) by, among other things, offering for sale, selling, importing and/or distributing the Accused Products in and into the United States.

46. The Accused Products infringe at least claim 1 of the '681 patent, either literally and/or under the doctrine of equivalents.

47. Upon information and belief, the Accused Products are liquid cooling systems for cooling a heat-generating component of a computer comprising the claimed elements of at least claim 1 of the '681 patent.



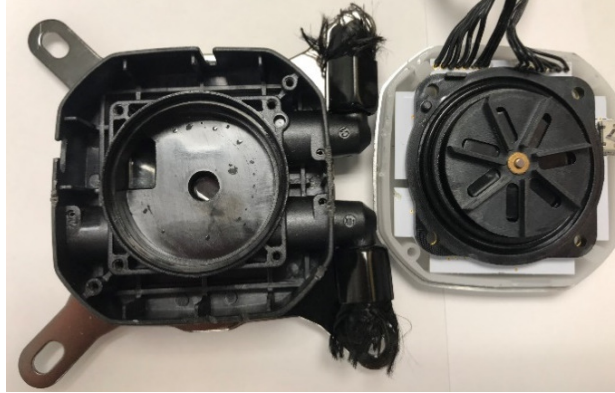
48. Upon information and belief, the Accused Products include “a double sided chassis adapted to mount a pump configured to circulate a cooling liquid, the pump comprising a motor with a stator and an impeller, the impeller being positioned on one side of the chassis and the stator being positioned on an opposite side of the chassis and isolated from the cooling liquid.” For example, as the images of the representative H100i RGB Platinum product below show, the Accused Products include a double-sided chassis mounted with a pump that has a stator and an impeller, with the impeller positioned on one side of the chassis and the stator positioned on the opposite side and isolated from cooling liquid.



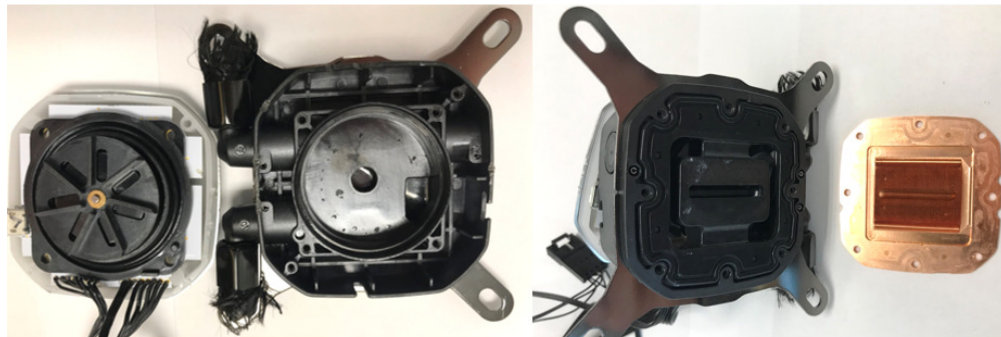
49. Upon information and belief, the Accused Products further include “a reservoir adapted to pass the cooling liquid therethrough.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a reservoir adapted to pass cooling liquid therethrough.



50. Upon information and belief, the reservoir of the Accused Products includes “a pump chamber including an impeller.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products comprise a pump chamber that houses the impeller.



51. Upon information and belief, the reservoir of the Accused Products includes “a thermal exchange chamber formed below the pump chamber and vertically spaced apart from the pump chamber, the pump chamber and the thermal exchange chamber being separate enclosed chambers that are fluidly coupled.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products includes a thermal exchange chamber placed below and vertically spaced apart from the pump chamber. The pump chamber and thermal exchange chamber are separately enclosed and fluidly coupled.

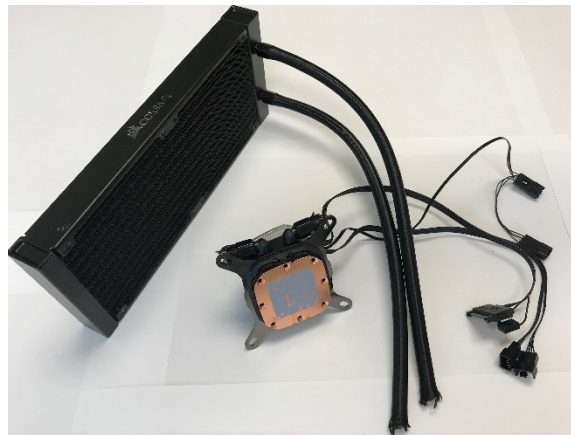


52. Upon information and belief, the reservoir of the Accused Products includes “a heat-exchanging interface removably coupled to the reservoir, the heat exchanging interface forming a boundary wall of the thermal exchange chamber and configured to be placed in thermal contact with a surface of the heat-generating component.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Product has a heat-exchanging interface that is removably coupled to the reservoir (e.g., using screws, fasteners, or

brackets) and configured to be placed in thermal contact with a surface of the heat-generating component.



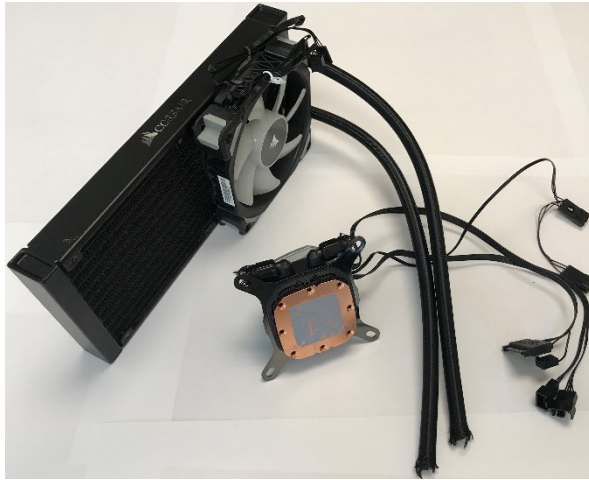
53. Upon information and belief, the Accused Products include “a heat radiator adapted to pass the cooling liquid therethrough, the heat radiator being fluidly coupled to the reservoir and positioned at a location horizontally spaced apart from the heat-generating component, the heat radiator being configured to dissipate heat from the cooling liquid.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a heat radiator adapted to pass the cooling liquid therethrough and is fluidly coupled to the reservoir and positioned at a location horizontally spaced apart from the heat-generating component and is configured to dissipate heat from the cooling liquid.



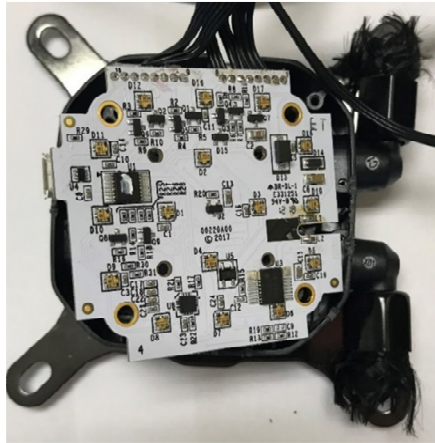
54. Upon information and belief, the Accused Products include “a fan configured to direct air through the heat radiator, the fan being driven by a motor separate from the motor of the pump.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused



1 Products include a fan configured to direct air through the heat radiator and the fan is driven by a  
 2 motor separate from the motor of the pump.



11 55. Upon information and belief, the Accused Products include “a control system configured  
 12 to independently control a speed of the pump and a speed of the fan.” For example, as the image of  
 13 the representative H100i RGB Platinum product below shows, the Accused Products include a  
 14 control system configured to allow independent control of a speed of the pump and a speed of the  
 15 fan.



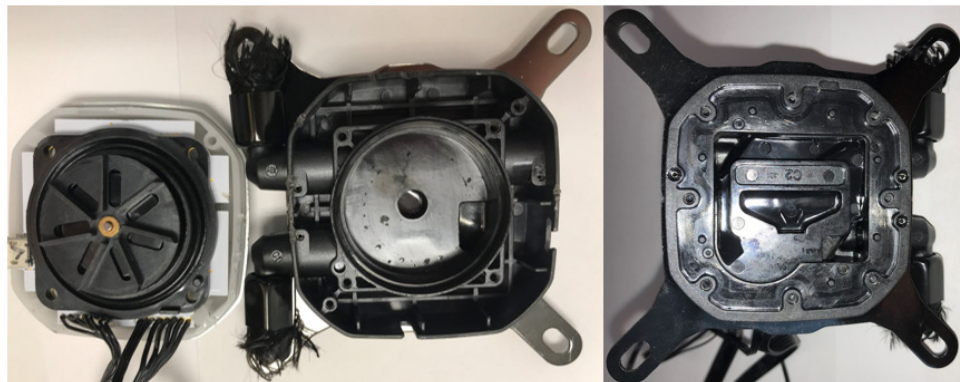
24 56. Upon information and belief, the pump chamber of the Accused Products includes “an  
 25 inlet positioned below the center of the impeller configured to enable the cooling liquid to enter the  
 26 center of the pump chamber.” For example, as the image of the representative H100i RGB Platinum  
 27 product below shows, the pump chamber of the Accused Products has an inlet positioned below the  
 28



center of the impeller configured to enable the cooling liquid to enter the center of the pump chamber.



57. Upon information and belief, the pump chamber of the Accused Products includes “an outlet that fluidly couples the pump chamber to the thermal exchange chamber via a first passage, the outlet is positioned along an outer circumference of the pump chamber and is configured to direct the cooling liquid driven by the impeller through the first passage to the thermal exchange chamber.” For example, as the images of the representative H100i RGB Platinum product below show, the pump chamber of the Accused Products includes an outlet that fluidly couples the pump chamber to the thermal exchange chamber via a first passage and the outlet is positioned along the outer circumference of the pump chamber and configured to direct cooling liquid driven by the impeller through the first passage to the thermal exchange chamber.



58. Upon information and belief, the first passage of the reservoir of the Accused Products “directs the cooling liquid into the thermal exchange chamber between a first end and a

second end of the thermal exchange chamber.” For example, as the image of the representative H100i RGB Platinum product below shows, the reservoir of the Accused Products includes a first passage that directs cooling liquid into the thermal exchange chamber between a first end and a second end of the thermal exchange chamber.



59. Upon information and belief, the thermal exchange chamber of the Accused Products includes “at least one second passage configured to direct the cooling liquid out of the thermal exchange chamber, the at least one second passage is positioned at either the first end or the second end of the thermal exchange chamber.” For example, as the image of the representative H100i RGB Platinum product below shows, the thermal exchange chamber of the Accused Products has at least one second passage configured to direct cooling liquid out of the thermal exchange chamber and is positioned at either the first or the second end of the thermal exchange chamber.





64. Asetek owns the entire right, title, and interest in and to the '354 patent. A true and correct copy of the '354 patent is attached hereto as Exhibit D.

65. Upon information and belief, CoolIT has directly infringed one or more claims of the '354 patent under 35 U.S.C. § 271(a) by, among other things, offering for sale, selling, importing and/or distributing the Accused Products in and into the United States.

66. The Accused Products infringe at least claim 15 of the '354 patent, either literally and/or under the doctrine of equivalents.

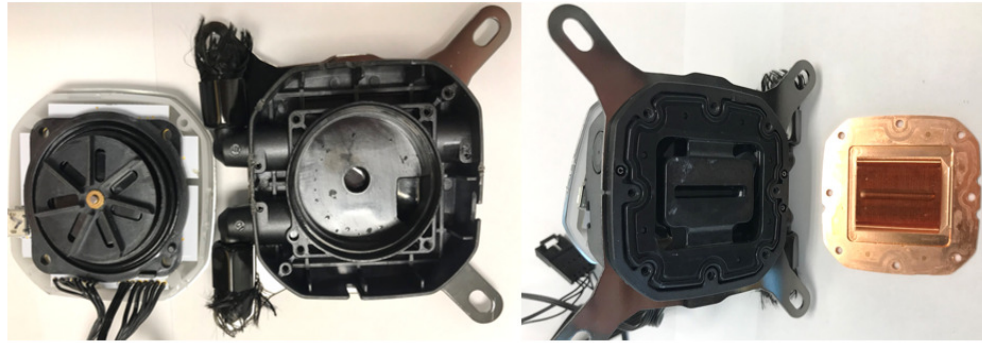
67. Upon information and belief, the Accused Products are cooling systems for computer processing units comprising the claimed elements of at least claim 15 of the '354 patent.



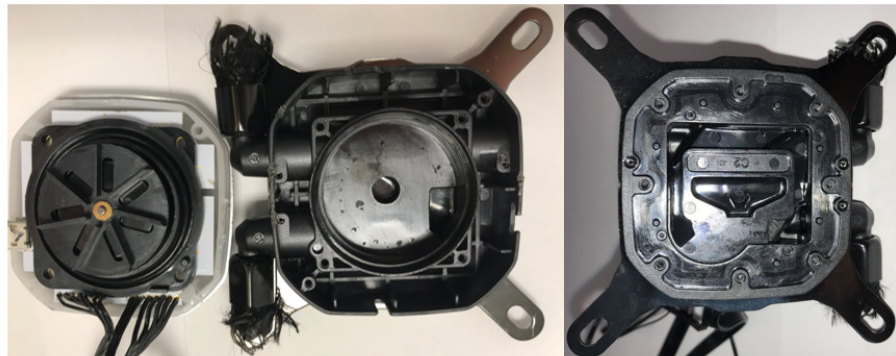
68. Upon information and belief, the Accused Products include “a reservoir configured to circulate a cooling liquid therethrough.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a reservoir configured to circulate a cooling liquid therethrough.



69. Upon information and belief, the reservoir of the Accused Products includes “an upper and a lower chamber, wherein the upper chamber and the lower chamber are vertically displaced fluid-containing chambers that are each surrounded by boundary walls.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products includes an upper chamber and a lower chamber that are vertically displaced and fluid-containing and are surrounded by boundary walls.



70. Upon information and belief, the reservoir of the Accused Products includes “a first passage that fluidly couples the lower chamber to the upper chamber.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products includes a first passage that fluidly couples the lower chamber and the upper chamber.





1           71. Upon information and belief, the reservoir of the Accused Products includes “a second  
2 passage positioned at a perimeter of the lower chamber.” For example, as the image of the  
3 representative H100i RGB Platinum product below shows, the reservoir of the Accused Products has  
4 a second passage positioned at a perimeter of the lower chamber.



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13           72. Upon information and belief, the first passage of the Accused Products “directs the  
14 cooling liquid into the lower chamber where the cooling liquid splits and is directed along a plurality  
15 of channels from a central region of the lower chamber outward, where the cooling liquid is  
16 collected and directed from the lower chamber through the second passage.” For example, as the  
17 images of the representative H100i RGB Platinum product below show, the first passage of the  
18 reservoir of the Accused Product directs cooling liquid into the lower chamber where the cooling  
19 liquid splits and is directed along a plurality of channels from the center outward. The cooling liquid  
20 is collected and then directed from the lower chamber through the second passage.



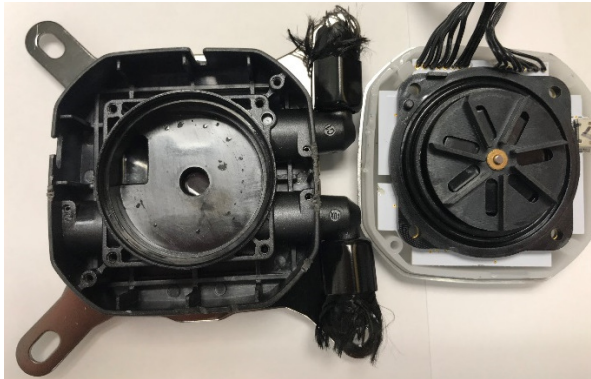


73. Upon information and belief, the reservoir of the Accused Products includes “a heat exchanging interface attached to the reservoir to form a boundary wall of the lower chamber, the heat exchanging interface provides thermal contact between the processing unit and the cooling liquid.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products has a heat exchanging interface attached to the reservoir to form a boundary wall of the lower chamber and provides thermal contact between the processing unit and the cooling liquid.

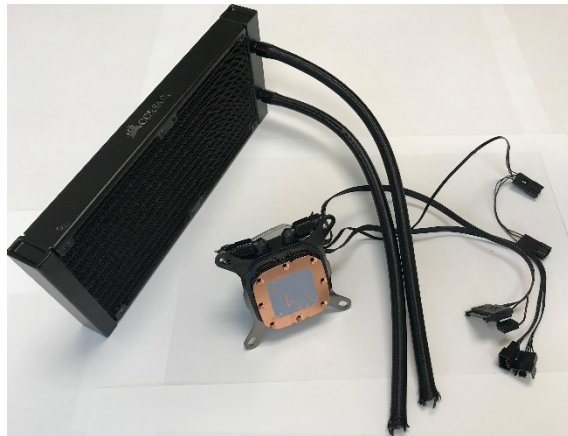


74. Upon information and belief, the reservoir of the Accused Products includes “a pump having a motor and an impeller, the impeller being positioned within the upper chamber of the reservoir.” For example, as the image of the representative H100i RGB Platinum product below

shows, the reservoir of the Accused Products has a pump that includes a motor and an impeller, and the impeller is positioned within the upper chamber.



75. Upon information and belief, the Accused Products include “a radiator spaced apart from and fluidly coupled to the reservoir.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Product has a radiator spaced apart from and fluidly coupled to the reservoir.



76. Upon information and belief, CoolIT has induced and continues to actively induce direct infringement of at least claim 15 of the '354 patent by others (such as its distributors, retailers, resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(b). CoolIT knew of the '354 patent, and upon information and belief, CoolIT has taken affirmative steps that have encouraged, aided and abetted (and continues to encourage, aid and abet) direct infringement by its distributors (including Corsair), retailers, resellers, customers, and end-users in the United States, and CoolIT has known that its induced acts constitute infringement of the '354 patent or has been

1 willfully blind to the infringement. These acts include, but are not limited to, CoolIT's manufacture  
 2 and supply of the Accused Products, promotion on its website, providing user manuals/guides  
 3 instructing its customers/end users how to install and use the Accused Products, and on information  
 4 and belief, its contracts and agreements with dealers, resellers, retailers, and distributors for the  
 5 promotions, offers to sell, and sales of the Accused Products in the United States.

6 77. Upon information and belief, CoolIT has contributed to and continues to contribute to the  
 7 direct infringement of at least claim 15 of the '354 patent by others (such as its distributors, retailers,  
 8 resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(c). Upon information  
 9 and belief, CoolIT supplies important (material) components of the Accused Products (as well as  
 10 instructions for the same) to its distributors, retailers, resellers, customers, and end-users in the  
 11 United States, including Corsair. Upon information and belief, CoolIT knew or was willfully blind  
 12 that the combination for which its components were especially made was both patented and  
 13 infringing, that the Accused Products are not a staple article or commodity of commerce, and has no  
 14 substantial non-infringing uses.

15 78. Upon information and belief, CoolIT has infringed the '354 patent in an egregious and  
 16 willful manner and with knowledge of the '354 patent, or was willfully blind to the patent and the  
 17 risk of infringement.

18 79. CoolIT's infringement of the '354 patent has caused and continues to cause damages and  
 19 irreparable harm to Asetek.

## 20 **COUNT V**

### 21 **Infringement of U.S. Patent No. 10,078,355**

22 80. Asetek owns the entire right, title, and interest in and to the '355 patent. A true and  
 23 correct copy of the '355 patent is attached hereto as Exhibit E.

24 81. Upon information and belief, CoolIT has directly infringed one or more claims of the  
 25 '355 patent under 35 U.S.C. § 271(a) by, among other things, offering for sale, selling, importing  
 26 and/or distributing the Accused Products in and into the United States.

27 82. The Accused Products infringe at least claim 1 of the '355 patent, either literally and/or  
 28 under the doctrine of equivalents.

83. Upon information and belief, the Accused Products are liquid cooling systems for cooling a heat-generating component of a computer comprising the claimed elements of at least claim 1 of the '355 patent.

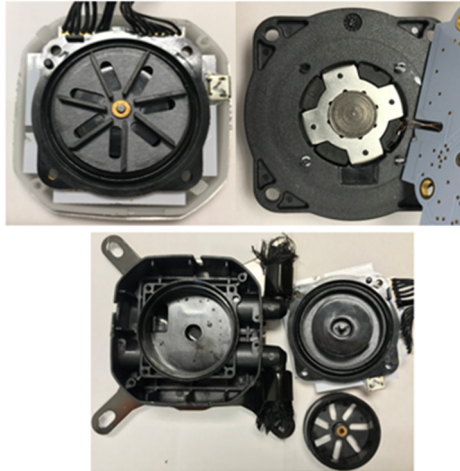


84. Upon information and belief, the Accused Products include “a reservoir configured to circulate a cooling liquid therethrough.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products include a reservoir configured to circulate a cooling liquid therethrough.



85. Upon information and belief, the reservoir of the Accused Products includes “a pump chamber housing an impeller and defined at least in part by an impeller cover and a double-sided chassis, the impeller being positioned on one side of the chassis and a stator of the pump is positioned on an opposite side of the chassis.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products includes a pump chamber housing an impeller and defined in part by an impeller cover and a double-sided chassis,

1 and the impeller is positioned on one side of the chassis and a stator of the pump is on the opposite  
 2 side of the chassis.



13 86. Upon information and belief, the reservoir of the Accused Products includes “a thermal  
 14 exchange chamber disposed between the pump chamber and the heat-generating component when  
 15 the system is installed on the heat-generating component.” For example, as the images of the  
 16 representative H100i RGB Platinum product below show, the reservoir of the Accused Products  
 17 includes a thermal exchange chamber positioned between the pump chamber and the heat generating  
 18 component when the system is installed on the heat-generating component.



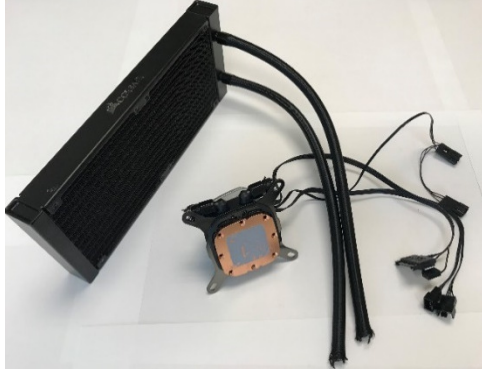


87. Upon information and belief, the reservoir of the Accused Products includes “a heat-exchanging interface forming a boundary wall of the thermal exchange chamber, the heat-exchanging interface has an outer surface configured to be placed in thermal contact with a surface of the heat-generating component and an inner surface that defines a plurality of channels that direct the flow of a cooling liquid within the thermal exchange chamber.” For example, as the images of the representative H100i RGB Platinum product below show, the reservoir of the Accused Products have a heat-exchanging interface forming a boundary wall of the thermal exchange chamber and has an outer surface configured to be placed in thermal contact with a surface of the heat-generating component and an inner surface that defines a plurality of channels that direct the flow of a cooling liquid within the thermal exchange chamber.



88. Upon information and belief, the Accused Products include “a heat radiator adapted to pass the cooling liquid therethrough, the heat radiator being fluidly coupled to the reservoir via fluid conduits, the heat radiator being configured to dissipate heat from the cooling liquid.” For example, as the image of the representative H100i RGB Platinum product below shows, the Accused Products have a heat radiator adapted to pass cooling liquid therethrough and fluidly coupled to the reservoir via fluid conduits and configured to dissipate heat from the cooling liquid.





89. Upon information and belief, the pump chamber of the Accused Products includes “an inlet defined by the impeller cover positioned below a center of the impeller configured to enable the cooling liquid to flow into the center of the pump chamber.” For example, as the image of the representative H100i RGB Platinum product below shows, the pump chamber of the Accused Products has an inlet defined by the impeller cover positioned below a center of the impeller configured to enable the cooling liquid to flow into the center of the pump chamber.



90. Upon information and belief, the pump chamber of the Accused Products includes “an outlet defined by the impeller cover positioned tangentially to the circumference of the impeller.” For example, as the image of the representative H100i RGB Platinum product above shows, the pump chamber of the Accused Products has an outlet defined by the impeller cover positioned tangentially to the circumference of the impeller.

91. Upon information and belief, CoolIT has induced and continues to actively induce direct infringement of at least claim 1 of the '355 patent by others (such as its distributors, retailers, resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(b). CoolIT knew of the '355 patent, and upon information and belief, CoolIT has taken affirmative steps that have

encouraged, aided and abetted (and continues to encourage, aid and abet) direct infringement by its distributors (including Corsair), retailers, resellers, customers, and end-users in the United States, and CoolIT has known that its induced acts constitute infringement of the '355 patent or has been willfully blind to the infringement. These acts include, but are not limited to, CoolIT's manufacture and supply of the Accused Products, promotion on its website, providing user manuals/guides instructing its customers/end users how to install and use the Accused Products, and on information and belief, its contracts and agreements with dealers, resellers, retailers, and distributors for the promotions, offers to sell, and sales of the Accused Products in the United States.

92. Upon information and belief, CoolIT has contributed to and continues to contribute to the direct infringement of at least claim 1 of the '355 patent by others (such as its distributors, retailers, resellers, customers, and end-users) in the United States under 35 U.S.C. § 271(c). Upon information and belief, CoolIT supplies important (material) components of the Accused Products (as well as instructions for the same) to its distributors, retailers, resellers, customers, and end-users in the United States, including Corsair. Upon information and belief, CoolIT knew or was willfully blind that the combination for which its components were especially made was both patented and infringing, that the Accused Products are not a staple article or commodity of commerce, and has no substantial non-infringing uses.

93. Upon information and belief, CoolIT has infringed the '355 patent in an egregious and willful manner and with knowledge of the '355 patent, or was willfully blind to the patent and the risk of infringement.

94. CoolIT's infringement of the '355 patent has caused and continues to cause damages and irreparable harm to Asetek.

### **PRAYER FOR RELIEF**

WHEREFORE, Asetek respectfully prays that the Court enter judgment in its favor and award the following relief against CoolIT:

A. A judgment in favor of Asetek that CoolIT has infringed (directly, contributorily, and by inducement) the Patents-in-Suit;

B. A judgment in favor of Asetek that CoolIT's infringement of the Patents-in-Suit has

1 been willful;

2 C. Preliminarily and permanently enjoin CoolIT and its officers, directors, employees,  
3 agents, licensees, representatives, affiliates, related companies, servants, successors and assigns, and  
4 any and all persons acting in privity or in concert with any of them, from further infringing upon the  
5 Patents-in-Suit;

6 D. Award Asetek actual damages pursuant to 35 U.S.C. § 284, in an amount to be  
7 determined at trial, as a result of CoolIT's infringement of the Patents-in-Suit;

8 E. Award Asetek pre- and post-judgment interest on all damages awarded, as well as  
9 supplemental damages;

10 F. Order that damages for infringement of the Patents-in-Suit be trebled as provided for  
11 by 35 U.S.C. § 284 for CoolIT's willful infringement of the Patents-in-Suit;

12 G. Find this to be an exceptional case and award Asetek its costs and attorney's fees  
13 under 35 U.S.C. § 285; and

14 H. Award and grant Asetek such other and further relief as the Court deems just and  
15 proper under the circumstances.

16 **DEMAND TRIAL BY JURY**

17 Asetek demands a jury trial on all matters triable to a jury.

18  
19 Dated: January 23, 2019

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, LLP

20  
21 By: /s/ Robert F. McCauley  
22 Robert F. McCauley  
23 Attorneys for Plaintiff  
ASETEK DANMARK A/S  
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